

PROCESS EXPERIENCE OF THE RC/BAHCO SO<sub>2</sub> REMOVAL SYSTEM. Dr. Richard S. Atkins, Research-Cottrell, P.O. Box 750, Bound Brook, New Jersey 08805

This paper examines the operating experiences of several Bahco SO<sub>2</sub> removal systems. SO<sub>2</sub> removal technology developed by AB Bahco Ventilation Enkoping, Sweden, is being successfully applied in thirteen commercial installations. Each of these units has exhibited on-stream reliability and high SO<sub>2</sub> adsorption efficiency. The oldest unit has almost three years of operating experience. Bahco design flexibility permits the use of Na and K bases, slurries of Ca and Mg bases and less expensive materials such as dolomite, burned lime, limestone, sodium carbonate and ammonia as potential scrubbing reagents. The process is amenable to by-product recovery such as sodium sulfate, sodium sulfite, gypsum, and ammonium sulfate which reduces the threat of discharging secondary pollutants. The paper also explores the possibilities of reverse fuel switching. That is the burning of high sulfur fuels in conjunction with using a RC/Bahco SO<sub>2</sub> scrubber and obtaining a more economic less pollutant situation than switching to low sulfur fuels. Research-Cottrell has the rights for applying the Bahco SO<sub>2</sub> removal technology in the U.S. and Canada.